

291 8.2 HW Key

p 423 5, 18, 23

5. $y = (x-3)^2 - 4$

V(3, -4)

a.o.s $x=3$

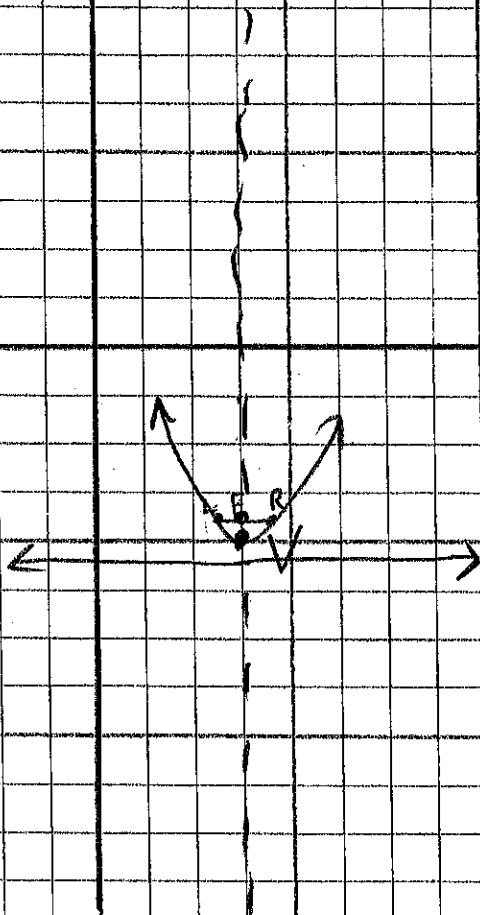
$|\frac{1}{4(0)}| = \frac{1}{4}$

F(3, $3\frac{3}{4}$)

D: $y = -4\frac{1}{4}$

LR = 1 L($2\frac{1}{2}$, $-3\frac{3}{4}$)

R($3\frac{1}{2}$, $-3\frac{3}{4}$)



18. $y-3 = \frac{1}{3}(x+6)^2$

$y = \frac{1}{3}(x+6)^2 + 3$

V(-6, 3)

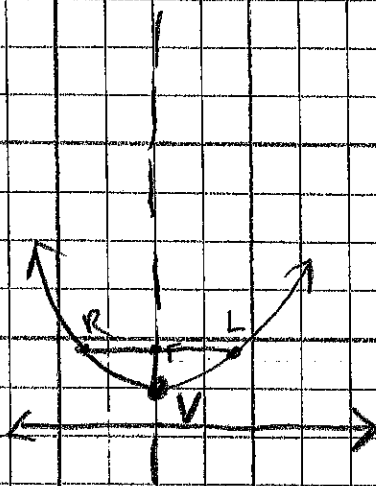
a.o.s $x=-6$

$|\frac{1}{4(\frac{1}{3})}| = \frac{3}{4}$

F(-6, $3\frac{3}{4}$)

D: $y = 2\frac{1}{4}$

LR = 3 L($-4\frac{1}{2}$, $3\frac{3}{4}$) R($-7\frac{1}{2}$, $3\frac{3}{4}$)



$$23. \quad X = y^2 - 14y + 25$$

$$X - 25 = y^2 - 14y + 49$$

$$X + 24 = (y - 7)^2$$

$$X = (y - 7)^2 - 24$$

$$V(-24, 7)$$

$$\left| \frac{L}{4(a)} \right| = \frac{1}{4}$$

$$F\left(-23\frac{3}{4}, 7\right)$$

$$D: X = -24\frac{1}{4}$$

$$LR = 1$$

$$\left(-23\frac{3}{4}, 7\frac{1}{2}\right)$$

$$\left(-23\frac{3}{4}, 6\frac{1}{2}\right)$$



-24

-20

8